



Willy Halla

**Broadcast
Educational
Media
Commission**

INTRODUCTION

This modernization is intended to support the latest in broadcast technology and provide a platform for delivery of new services using IT networks and other platforms through the stations to consumers. It will enhance the playout capability of the North Star Road Network Operations Center, including the ability to centralize playout for any portion of the 41 continuous channels originated by the stations and BEMC today

PROPOSED SYSTEM

Our solution provides:

- 41-channel automated playout solution by integrating Myers and Cinegy software functions.
- IP-based software-driven technology architecture using commodity IT equipment.
- Scalable approach with N+M redundancy and failover plan that positions the BEMC and stations for future developments and growth.
- Compliant 5-year solution to the BEMC functional requirements including software, hardware, and services.
- Redundant database with integrated playout, file ingest and QC, transcoding, file transfers, and monitoring functions.
- Optional 400+TB off-line storage.
- Acknowledgement of V6 for potential future operations.

11/17/2016 — Substantial Completion

02/26/2017 — Completed all Punch List Items

07/16/2018 — 1st Major Software Upgrade (Version 11)

Dec. 13-17, 2021 — Major Software Upgrade to Systems (Version 14)

2023-2024 — Hardware Refresh

TIMELINE



MEMORY LANE



MEMORY LANE



MEMORY LANE



MEMORY LANE



MEMORY LANE



MEMORY LANE



MEMORY LANE



MEMORY LANE

FEATURES OF SYSTEM

- All IP System.
- It is Software Modules running on COTS Equipment
- Has a perpetual software license that only requires a ongoing SLA agreement.
- Software is resolution agnostic.
- Scalable approach positions the BEMC and stations for future developments and growth.
- Redundant database with integrated playout, file ingest and QC, transcoding, file transfers, and monitoring functions.
- Now includes expanded On-Line storage and Near-Line Storage.
- Utilizing the PBS V6 model, both files and streaming.
- Staged for OTT (Over the Top) streaming to YouTube and other CDN's.
- Poised for ATSC3 and 5G delivery.
- The output of the Players at BEMC can be routed directly to the stations encoder/Mux and out to the transmitter.
- The stations through Myers Protrack control what they put out to Air.

HA DESIGNS/CINEGY CONTRIBUTIONS

- The interface to Myers from the beginning was an enhanced product as we moved forward.
- The Airpro functionality increased
- The software is now capable of 8K and codecs including the HEVC/H.265 plus more.
- To add the OTT Stream we can use either another player instance or a secondary stream output from original player.
- Stations can add revenue by adding interstitials to pass through channels.
- Dolby is now a part of AirPro and does not require a separate license.
- Loudness control can be licensed from Linear Acoustics' as a plug to Airpro.

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THANK YOU

Any Questions